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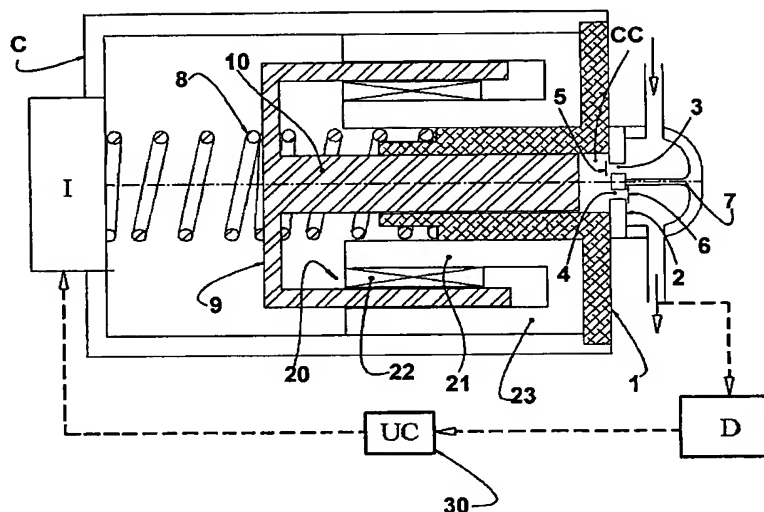
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(54) Title: SYSTEM FOR ADJUSTING RESONANCE FREQUENCIES IN A LINEAR COMPRESSOR



(57) Abstract: A system for adjusting resonant frequencies in a linear compressor comprising, in the interior of a shell: a linear motor (20); a cylinder (1); a piston (10) reciprocating inside the cylinder (1); and an actuating means (9) operatively coupling the piston (10) to the linear motor (20), said system comprising: a detecting means (D) to detect a load imposed to the linear motor (20), in an operational condition of the latter related to the gas pressure in the discharge thereof; and a frequency adjusting means operatively associated with the detecting means (D) and with the resonant assembly, in order to define, as a function of said operational condition, a frequency adjustment, by varying at least one of the values related to the mass of the resonant assembly and to the average stroke of the piston (10), to a value of the mechanical resonance frequency corresponding to the electrical supply frequency.

WO 2004/094826 A1